Complete and send this form, together with applicable fee(s), to: Mail				Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000			
INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.							
CURRENT CHERESE MDENCE ADDRESS (Note: Use Block I for any change of address) 7590 04/28/2005				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
P.O. Box 70098 Rochester Hills, M	1 48307	Hoffmann,		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.			
07/05/2005 HDEMESS2 00	000034 10611340			John & Miller (Depositor's name)			
01 FC:1501 02 FC:1504	1400.00 OP 300.00 OP			A	6/28/05	(Signature) (Date)	
APPLICATION NO.	3.00 OP FILING DATE		FIRST NAMED INVI	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/611,340	07/01/2003		James A. Hatha	wav	NGC-00042 (45-0014)	3759	
APPLN, TYPE	LTRA WIDEBAND BGA SMALL ENTITY	ISSUE FI	EE T	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400		\$300	\$1700	07/28/2005	
·	IINER	ART UN		CLASS-SUBCLASS	1	0 11 ZG1 Z 0 0 3	
TRAN, LONG K		2818		257-678000	J		
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 1 John A. Miller 2 Warn, Hoffmann, Miller Lalone, P.C.				
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)							
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.							
(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)							
Northrop Grumman Corporation Los Angeles, CA USA							
Please check the appropriate assignee category or categories (will not be printed on the patent):							
4a. The following fee(s) are enclosed: 4b. Payment of Fee(s):							
Issue Fee A check in the amount of the fee(s) is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. ,any.yadd'1							
Advance Order - # of Copies 1 x \$3 = \$3 The Director is hereby authorized by charge the remarked fee(s) or credit any overpayment to							
			Deposit Account N	umber 50-1612	(enclose an extra c	copy of this form).	
5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).							
NOTE. The Issue Fee and F	is requested to apply the Issu ublication Fee (if required) words of the United States Pate	viii not de accepted	i irom anvone other	o re-apply any previousl than the applicant; a reg	y paid issue fee to the application stered attorney or agent; or the	ation identified above. he assignee or other party in	
Authorized Signature	John A. Miller		Date 6/28/05				
Typed or printed name Ohn G Julk				Registration No. 34985			
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.							

PTOL-85 (Rev. 12/04) Approved for use through 04/30/2007.

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE duction Act of 1995. no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/611,340 Filing Date RANSMITTAL 7-1-03 First Named Inventor **FORM** James A. Hathaway Art Unit 2818 Examiner Name Long K. Tran (to be used for all correspondence after initial filing) Attorney Docket Number Total Number of Boson in This Submission NGC-00042(45-0014)

Total Number of	Pages in This Submission						
ENCLOSURES (Check all that apply)							
Fee Trans	smittal Form	Drawing(s)	After Allowance Communication to TC				
✓ Fe	ee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences				
Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53		Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD Remarks	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief); (08-64) Proprietary Information: OS COMMURUE Status Letter Other-Enclosure(s) (please Identify below): Form PTO 2038 - Credit Card Payment Form; Return Receipt Postcard Appeal Communication to Board of contrasts and intermediates.				
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT at the control of the c							
Firm Name	Warn, Hoffmann, Mil	Franksty fyrstig en 1975 och 1980.					
Signature John a Miller Signature							
Printed name	John A. Miller	// .					
Date 455.5	6-28-05	Reg. No.	34985				
Tipografia and the second seco							
CERTIFICATE OF TRANSMISSION/MAILING							
I hereby certify the sufficient postage the date shown be Signature	as first class mail in an en	eing facsimile transmitted to the USPTO or depositivelope addressed to: Commissioner for Patents, P	ited with the United States Postal Service with O. Box 1450, Alexandria, VA 22313-1450 on				
Typed or printed	name John A. Miller	- Reg. No. 34985	Date 6-28-05				
The state of the s							

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

The second of th